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OM protein - protein search, using sw model

Run on: December 26, 2001, 10:33:29 ; Search time 15.89 Seconds
(without alignments)
662.778 Million cell updates/sec

Title: US-09-497-967-7
Perfect score: 2540
Sequence: 1 MKNILVILISLFINQIKS.....QCDFANFLSLLLISVYLL 468

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues

Total number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA.*
1: /cgn2_6/ptodata/2/1aa/5A_COMB.pap.*
2: /cgn2_6/ptodata/2/1aa/5B_COMB.pap.*
3: /cgn2_6/ptodata/2/1aa/6A_COMB.pap.*
4: /cgn2_6/ptodata/2/1aa/6B_COMB.pap.*
5: /cgn2_6/ptodata/2/1aa/PTCUS_COMB.pap.*
6: /cgn2_6/ptodata/2/1aa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	200.5	7.9	1345	2	US-08-977-767-3
2	187.5	7.4	801	1	US-07-906-349A-6
3	179.5	7.1	341	2	US-08-209-521-11
4	175.5	6.9	3075	2	US-08-460-309-5
5	175.5	6.9	3075	2	US-08-125-077-5
6	166.5	6.6	969	2	US-08-284-941-2
7	166.5	6.6	969	2	US-08-447-642-2
8	166.5	6.6	969	2	US-09-236-503-2
9	166.5	6.6	969	5	PCT-US93-02147A-2
10	157	6.2	3111	2	US-08-460-309-4
11	157	6.2	3111	2	US-08-125-077-4
12	150.5	5.9	1111	1	US-08-317-450B-15
13	150.5	5.9	1111	4	US-08-800-593-15
14	150.5	5.9	1193	1	US-08-317-450B-13
15	150.5	5.9	1193	4	US-08-800-593-13
16	146	5.7	355	1	US-08-292-549-6
17	146	5.7	355	4	US-09-006-353A-14
18	143.5	5.6	610	1	US-08-365-470-3
19	143.5	5.6	610	3	US-09-209-668-19
20	143.5	5.6	610	4	US-09-009-490A-89
21	141.5	5.6	610	6	5217870-2
22	138	5.4	2471	1	US-08-185-432-16
23	138	5.4	2471	1	US-08-083-590A-19
24	138	5.4	2471	3	US-08-532-384-19
25	135.5	5.2	2523	1	US-08-185-432-18
26	132	5.2	1147	1	US-08-144-121-3
27	132	5.2	1147	2	US-08-735-893-3

ALIGNMENTS

RESULT 1
US-08-977-767-3
; Sequence 3, Application US/08977767
; Patent No. 5972684
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Yue, Henry
; APPLICANT: Greenwald, Sara
; APPLICANT: Corley, Neil C.
; TITLE OF INVENTION: CARBONIC ANHYDRASE VIII
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/977,767
; FILING DATE: Herewith
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0423 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-853-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1345 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1532042
US-08-977-767-3

Sequence 19, Appl
Sequence 19, Appl
Patent No. 5256642
Patent No. 5472939
Patent No. 5256642
Patent No. 5472939
Patent No. 5256642
Patent No. 5472939
Patent No. 5256642
Patent No. 5472939
Patent No. 5256642
Patent No. 5472939
Sequence 23, Appl
Sequence 23, Appl
Patent No. 5378464
Patent No. 5378464
Sequence 4, Appl
Sequence 4, Appl
Sequence 6, Appl
Sequence 2, Appl

28 131.5 5.2 314 2 US-08-460-309-19
29 131.5 5.2 314 2 US-08-125-077-19
30 131.5 5.2 1466 6 5256642-6
31 131.5 5.2 1466 6 5472939-6
32 131.5 5.2 1537 6 5256642-5
33 131.5 5.2 1537 6 5472939-5
34 131.5 5.2 1847 6 5256642-10
35 131.5 5.2 1847 6 5472939-10
36 131.5 5.2 2039 6 5256642-2
37 131.5 5.2 2039 6 5472939-2
38 130.5 5.1 581 3 US-08-665-259-23
39 130.5 5.1 581 3 US-08-762-500-23
40 130 5.1 830 6 5378464-2
41 129 5.1 574 6 5378464-3
42 128.5 5.1 830 1 US-08-110-158-4
43 127.5 5.0 581 1 US-08-152-019A-27
44 127.5 5.0 581 3 US-08-482-677-6
45 127.5 5.0 581 3 US-08-650-599A-2

Query Match 7.9%; Score 200.5; DB 2; Length 1345;
Best Local Similarity 25.8%; Pred. No. 3.3e-09;
Matches 111; Conservative 5; Mismatches 212; Indels 103; Gaps 17;
Y 21 ANCPVGTETAGVDDLG--TPANCYNCKNFYNNAAAFVPGAS---TCTPCPKDAG 76
DB 649 AGCAGGAGGAGCTGGCTCTGAACACCAATCAACCATCAGGTTCTCTGCTGAGGTG 708
Y 77 AQPNPATANLVTCNVKPCAG-----TAJAGATDYAAIITECVNCRINFINENAPNF 131
DB 709 CAATCATCCACTTCAACCAAGAACTCTATGGAACCTCAGTCCGCCA-----CC 759
Y 132 AGASTCTACPNRVGGALTAGNAAT--IVACQNVACPTGTALDDGVTTDVRSFTECVK 189
DB 760 AGGGGCCCAA--TGGCGTGGCCATCTCAGCCTCTTGCAATGT-----803
Y 190 RLNFYNGNNGNTPFNPCKSOCTPCPAIKPANVAQAATLGNDAITTAOCNVACPDGTISAA 249
DB 804 -----GGCTG-----GTAGCT--CAACCCGTTCTCTCAGACGCTCTTAACCGTGACA 850
Y 250 GVNVAQNTCTNCAPNFNNAPNPNPNSCLPCPANKDYGAETAGGAATLAKCN 309
DB 851 C-----CATCA-----CCCGCATCTC-----TATAAGATGATGCC 882
Y 310 IACPDGTATAGATNYVILQTECLNCAANFYFDGNNFOAGSSRCKKACPAKV-----OGAV 365
DB 883 TAC-----TTTCTTCAAGACCTGAGCCTGAGCTCTGTCGCCCGAGTC 926
Y 366 ATAGGTATLIAQALECPAGTIVLTGTTSTYKQAASECVKCAANFYTKQTDWVAGIDTC 425
DB 927 CTTTGCTTCAICA--CCTATCAGGCTCTCTCAGCACCCACCAC--CCTGCT--CGGAGAC 980
Y 426 TSCNKLTSGA 436
DB 981 TGTACCTGGA 991
RESULT 2
US-07-906-349A-6
; Sequence 6, Application US/07906349A
; Patent No. 5434064
; GENERAL INFORMATION:
; APPLICANT: Skolnik, Edward Y.
; APPLICANT: Margolis, Benjamin L.
; TITLE OF INVENTION: A NOVEL EXPRESSION-CLONING METHOD FOR
; TITLE OF INVENTION: IDENTIFYING TARGET PROTEINS FOR EUKARYOTIC TYROSINE KINASES AN
; TITLE OF INVENTION: TARGET PROTEINS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Browdy and Neimark
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/906,349A
; FILING DATE: 30-JUN-1992
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/643,237
; FILING DATE: 18-JAN-1991
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:

LENGTH: 801 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-906-349A-6
Query Match 7.4%; Score 187.5; DB 1; Length 801;
Best Local Similarity 25.7%; Pred. No. 2.3e-08;
Matches 116; Conservative 7; Mismatches 195; Indels 133; Gaps 21;
Y 21 ANCPVGT-----EINTAGOV--DDLGTAPANCYNCKNFYNNAAAFVPGASTCTPCPKK 73
DB 253 AGCCTGTGAGGAGTGCAGAACACCGTTTTTC-----TTAATTGGGRTTCGAGC 302
Y 74 DAGAQNPPEPATAN--LVTOCNVKKPAGTAIAG--GATDYAAIITECVNCRINFINENAPNF 130
DB 303 GAGACTGTCTGCGGACACTCCCTCAGCTCTTGTGTGGTGGCGGTCACCCCT-----352
Y 131 NAGASTCT--ACPNRVGGALTAGNAATIVACQNVACPTGTALDDGVTTDVRSFTECVK 189
DB 353 GTGACCTCTCTCACTTTGG--TTGGA-----ACTT--TAGGGG-----385
Y 190 RLNFYNGNNGNTPFNPCKSOCTPCPAIKPANVAQAATLGNDA---TITAOCNVACPDGTI 246
DB 386 -----GTGGGAGGGGACCGCCCGCAGTGGGAGAGTGAACCAAC--CTT 436
Y 247 SAAGVNNVAQNTCTNCAPNFNNAPNPNPNSCLPCPANKDYGAETAGGAAT---303
DB 437 GAAA-----TCCCCCA-----CCCTCCCCCGGTGGATTAAAAAATGCC 475
Y 304 LAKOCNLIACPDGTATIASGA-----TNYVILQTECLNCAANFYFDGNNFOAG 349
DB 476 AAAACTTACCTATAAATTAAGAAGAGT---TTTATTACAAATTTCAACT-----AAA 526
Y 350 SSRCKACPAKPVGAVATAGTATLIA-----OCALPCPAGTIVLTGTTSTYKQAASECV 404
DB 527 TTTTACGGTTTTCG--ATGATATTTAATTTCTTCTCAAAAATAATGTTTAAATCACTGCT 585
Y 405 KCAANFYTKQTDWVAGIDTCTSCNKLTSG 435
DB 586 GTCCTCTT-----TCCCTCCTCTTG 606
RESULT 3
US-08-209-521-11
; Sequence 11, Application US/08209521
; Patent No. 5922855
; GENERAL INFORMATION:
; APPLICANT: Liskay, Robert M.
; APPLICANT: Bronner, C. Eric
; APPLICANT: Baker, Sean M.
; APPLICANT: Bollag, Roni J.
; APPLICANT: Kolodner, Richard D.
; TITLE OF INVENTION: MAMMALIAN DNA MISMATCH REPAIR GENES
; TITLE OF INVENTION: RMLH1 AND HPMS1
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kolisch, Hartwell, Dickinson, McCormack &
; ADDRESSEE: Heuser
; STREET: 520 S.W. Yamhill, Suite 200
; CITY: Portland
; STATE: Oregon
; COUNTRY: US
; ZIP: 97204
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/209,521

;; FILING DATE: 08-MAR-1994
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Van Ryselberghe, Pierre C.
;; REGISTRATION NUMBER: 33,557
;; REFERENCE/DOCKET NUMBER: OHSU 306A
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (503) 224-6655
;; TELEFAX: (503) 295-6679
;; INFORMATION FOR SEQ ID NO: 11:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 341 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; POSITION IN GENOME:
;; MAP POSITION: 3p21.3-23
;; US-08-209-521-11

Query Match 7.1%; Score 179.5; DB 2; Length 341;
Best Local Similarity 25.8%; Pred. No. 3.8e-08;
Matches 98; Conservative 9; Mismatches 130; Indels 143; Gaps 20;

QY 134 ASTCTACPNVRVGGALTAGNAATVACQNVACPTGTALDDGVTTDYVRSFTECVKRLNF 193
Db 3 ATTCAAAG-----AGATTGGAAATGAGTAACAT-----GATTATTACT-CATC----- 47
QY 194 YVNGNNGTNPNGKSOCT-PCPAKPNVQAQTLGNDATI-----TAQCNV 239
Db 48 -----TTTTGGTATCTAACAAAAGAGATCTGGATATTGTATGAAAGGKTCAC-T 99
QY 240 ACPDGTISAAGVNNVVAQNTCTNCAPNFYNNAPNPNPNCSTCLPCPANKDYGAEATAG 299
Db 100 ACTAGTAA-----CTGCA-----GTC-----CTTTGAGAGADTTA 130
QY 300 G--AATLAKQCNAC-----PDGTA-----TASGATNYVILQTECLNCA 337
Db 131 GCCAGTATTTTACCTATCTCTCTGAGTGAGGTAAGCTAAAGAT-----TCAA 180
QY 338 NFYFGNNFQAGSSR--CKACPNKVGAVATAG-----CTATLIAQ 377
Db 181 GAAATGTTAAATATCTCTCTGAGTGACATGTYTGTCATTGTTAGTATGTTCT 240
QY 378 CALECPAG-----TVLTGTTSTYKQAASECVKCAANFYTTKQTDW 418
Db 241 CAACATAGATAAATAAGGTTTGGTACCTTTTACTTGTAAATGATGCAAA--ATGTATGC 298
QY 419 VAGIDTCT--SCNKKLPSGA 436
Db 299 AAA--TCGHCGAACACTTAA 316

RESULT 4
US-08-460-309-5
; Sequence 5, Application US/08460309
; Patent No. 5837496
; GENERAL INFORMATION:
; APPLICANT: Engvall, Eva
; APPLICANT: Leivo, Ilmo
; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
; TITLE OF INVENTION: Fragments and Uses thereof
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/460.309
;; FILING DATE:
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/125,077
;; FILING DATE: 22-SEP-1993
;; APPLICATION NUMBER: US PCT/US 94/10730
;; FILING DATE: 21-SEP-1994
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/472,319
;; FILING DATE: 30-JAN-1990
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/919,951
;; FILING DATE: 27-JUL-1992
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Campbell, Cathryn A.
;; REGISTRATION NUMBER: 31,815
;; REFERENCE/DOCKET NUMBER: P-LA 9721
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (619) 535-9001
;; TELEFAX: (619) 535-8949
;; INFORMATION FOR SEQ ID NO: 5:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 3075 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; US-08-460-309-5

Query Match 6.9%; Score 175.5; DB 2; Length 3075;
Best Local Similarity 21.2%; Pred. No. 1.6e-06;
Matches 110; Conservative 44; Mismatches 187; Indels 177; Gaps 30;
QY 18 IKSANCPVGTETNTAGQVDDLTGPANVCNCKNFYNNAAAFVPGASTCTPCQPKKDA 77
Db 706 VEHCECPGY-----TCTSCSCLSGYRVGDLF---GGICQPCCHGHA-- 748
QY 78 QPNPPATANLVTCNVKCPAGTAAGATDYAAIITCVNCRINFYNENAPNENACASTC 137
Db 749 -----AECNVH---GVCI---ACAHTTGVHCEQCLFCFYGEPSRGTGPGCQPC 791
QY 138 TACPVRVGGALTAGNAATVACQNVACPTGTALDDG--VTTDYV--SFTCEVKRLN 192
Db 792 -ACPL-----TIAS--NNFSPT-CHLNDGDEVVCDWCAPGYSAGANCERCADG 834
QY 193 FYNGNNGTNPNGKSOCTPCPAKPNVQAQTLGNDATIACQNVACPDGTISAAGV 252
Db 835 YYGN-----PTVPGES-CVPCDC--SGNVDPSEAGHCDSTGEC--LKCLGNTDGA---- 880
QY 253 NVAQNTCTNCAPNFYNN--NAPN-----FNPGNSTCLPCPANKD-- 291
Db 881 -----HCERCADGFYGDVATARNCRACBCHVKGSHSAVCHLETGLCDCKPNVTGQOCD 933
QY 292 -----YGAETAGGAATLAKQCNACPDGTATASGATNY-----VILQTECLNCAAN 338
Db 934 QCLHGYGLDSGHG-----CRPCN--CSVAGSVSDGCTDEGQCHCVPGVAGKRCRCAHG 986
QY 339 FYFDGNNFQAGSSRCKACPNKVGAVATAGGTATLIAQCALECPAGT-----VLTGDT 392
Db 987 FY----AYQDGS--CTPCDCPHQNTCDPETG-----ECV--CPHTGVKCECEDEGH 1032
QY 393 TSYTKQAASECVKCAANFYTTKQTDWVAGIDTCTS-----C 428
Db 1033 WGYDAEYGCQACNCSLVGSHHRCDDVTGHCQCKSFGGRACVQCSLGYRDFDCVPCDC 1092
QY 429 NKKLTSGAEANLPES-----AKNNT---QCD 451
Db 1093 DLRGTSGDANLEQGLCGGVETTGACPCPKENVFPGQCN 1130

Db 881 -----HCERCADGFYDAVTAKNCRACECHVKSHSAVCHLEIGLCDCRPNVTGQOCD 933
QY 292 -----YGAETAGGAATLAKOCNIACPDGTAIASGATNY-----VILQTECLNCAAN 338
Db 934 OCLHGYGLDSHG-----CRPCN--CSVAGSVSDGCTDEGCHCVPGVAGKRCDCRCAHG 986
QY 339 FYFDGNFNFOAGSSRCACAPANKVQGAATAGTATLIAQCALECPAGT-----VLTGDT 392
Db 987 FY-----AYDGS--CTPCDCHPTQNTCDPETG-----ECV--CPHPTQGVKCECEDGH 1032
QY 393 TSTYKQAASECYKCAANFYTTKOTDWWAGIDFCTS-----AKKNI---QCD 451
Db 1033 WGYDAEVGCOACNCSLVGSTHHRCDVVTGHCCKSKFGRACVQCSLGYRDFDCVPCDC 1092
QY 429 NKLTSGABANLPES-----AKKNI---QCD 451
Db 1093 DLRGTSODACNLEQGLCGCVETGACPKCNVFGPCN 1130

RESULT 6
US-08-284-941-2
; Sequence 2, Application US/08284941
; Patent No. 5863756
; GENERAL INFORMATION:
; APPLICANT: BARR, PHILIP J
; APPLICANT: KIEFER, MICHAEL C
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR PACE 4 AND
; TITLE OF INVENTION: PACE 4.1 GENE AND POLYPEPTIDES IN CELLS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: COOLEY GODWARD CASTRO HUDDLESON & TATUM
; STREET: FIVE PALO ALTO SQUARE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/284,941
; FILING DATE: 2 August 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: NEELEY PH.D., RICHARD L.
; REGISTRATION NUMBER: 30092
; REFERENCE/DOCKET NUMBER: CHIR-009/0105
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 843-5070
; TELEFAX: (415) 857-0663
; TELEX: 380816 COOLEY PA
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 969 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-284-941-2

Query Match 6.6%; Score 166.5; DB 2; Length 969;
Best Local Similarity 20.7%; Pred. No. 2.1e-06;
Matches 86; Conservative 53; Mismatches 135; Indels 141; Gaps 25;
QY 70 POKKDAGAPNPATANLV--TQCNVKCPAGTAAGGATDYAAIITECVNCFINFEYNENA 127
Db 672 PEDEEDYTAQSTPGSANILQTSVCHPEC--GDKGCDGPNAD-----QCLNC--VHF---SL 720
QY 128 PNFENAGASTCTACPNRVCGALTAGNAATVACQNVACPTGTALDDGVTTDYVRSFTCEV 187

Db 881 -----HCERCADGFYDAVTAKNCRACECHVKSHSAVCHLEIGLCDCRPNVTGQOCD 933
QY 292 -----YGAETAGGAATLAKOCNIACPDGTAIASGATNY-----VILQTECLNCAAN 338
Db 934 OCLHGYGLDSHG-----CRPCN--CSVAGSVSDGCTDEGCHCVPGVAGKRCDCRCAHG 986
QY 339 FYFDGNFNFOAGSSRCACAPANKVQGAATAGTATLIAQCALECPAGT-----VLTGDT 392
Db 987 FY-----AYDGS--CTPCDCHPTQNTCDPETG-----ECV--CPHPTQGVKCECEDGH 1032
QY 393 TSTYKQAASECYKCAANFYTTKOTDWWAGIDFCTS-----AKKNI---QCD 451
Db 1033 WGYDAEVGCOACNCSLVGSTHHRCDVVTGHCCKSKFGRACVQCSLGYRDFDCVPCDC 1092
QY 429 NKLTSGABANLPES-----AKKNI---QCD 451
Db 1093 DLRGTSODACNLEQGLCGCVETGACPKCNVFGPCN 1130

RESULT 5
US-08-125-077-5
; Sequence 5, Application US/08125077
; Patent No. 5872231
; Patent No. 5872231 5840863
; GENERAL INFORMATION:
; APPLICANT: Engvall, Eva
; APPLICANT: Levi, Ilmo
; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
; TITLE OF INVENTION: Fragments and Uses Thereof
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/125,077
; FILING DATE: 22-SEP-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US 94/10730
; FILING DATE: 21-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/472,319
; FILING DATE: 30-JAN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/919,951
; FILING DATE: 27-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LA 9721
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3075 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-125-077-5

Query Match 6.9%; Score 175.5; DB 2; Length 3075;
Best Local Similarity 21.2%; Pred. No. 1.6e-06;
Matches 110; Conservative 44; Mismatches 187; Indels 177; Gaps 30;
QY 18 IKSANCPVGTETAGQVDLGTAPANCVCQKNFYNNAAAFVPGASTCTPCPKDKAGA 77
Db 706 VEHECEPQY-----TGTSCESCLSGYRVVDGLF---GGICQPCBCHGHA--- 748
QY 78 QPNPPATANLVQCNVKCPAGTAAGGATDYAAIITECVNCFINFEYNENAPFNAGASTC 137
Db 749 -----AECNVH---GVCI---ACAHNTGVHCEQLPGFYGEPSRGTGPGCQPC 791
QY 138 TACPNRVGGALTAGNAATVACQNVACPTGTALDDG--VTTDYVR---SFTCEVKCRNLN 192
Db 792 -ACPL-----TIAS--NNFSPT-CHLNDGEVVCDCAPGYSGAMCERCADG 834
QY 193 FYFNGNNGTNPFPKGSQCTPCPAIKPANYAQATLGNDAITACQNVACPDGTISAQVN 252
Db 835 YYGN-----PTVPGES--CVPCDC--SGNVDPSEAGHCDSTGEC-LKCLGNTDGA--- 880
QY 253 NWVAQNTECTNCAFNFYNN--NAPN-----FNPNGNSTCLPCPANKD-- 291

Db 721 GSVKTSRKCVSVCLGYFG-----DTAARRCRRCHKGCETCSS-----RAATQCL 765
QY 188 KCLNLFYNGNNGNTFNPNGKSC--TPCPAIPKPNVAQATLGNDAITTAQCNVACPDTI 246
Db 766 SCRRGFYHH--QEMNT-----CVTLCPAGFYADESKN-----CLKCHPSC----- 804
QY 247 SAAGVNNVAQNTNCAFNPNFNNAPNFGNSTCLP-CPANKDYGAETAGGAATLA 305
Db 805 -----KKCVDEPEKCTVC-----KEGFSIARGSCIPDCEPGTYFDSSELIRCG----- 846
QY 306 KOCNIACPDGTATASGATNYVILQTECLNCAANFYD-----GNNFOAGS-----S 351
Db 847 -ECHHTC--GTCVGP-----RECIHCAKNFHFHDMKCVACGEGFYPEEMPGLPHK 896
QY 352 RCKACPAKRVQAVATAGTATLIAQCALECPAGTVLTDGTTSTYKQAASCEVKAANFY 411
Db 897 VCRRCDEN-----CLSC-AG-----SSRNCSCRTKGF- 922
QY 412 TTKQTDWAGIDTCTSCNKKLT--SGAEANLPESAKKNIQCD---FANFLSISLLL 462
Db 923 -----TQLGTSCTIHTCSNADETFCEMVKSNRLCERKLFIQFCRTCLL 967

RESULT 7

US-08-447-642-2
; Sequence 2, Application US/08447642
; Patent No. 5989890
; GENERAL INFORMATION:
; APPLICANT: BARR, PHILIP J
; APPLICANT: KIEFER, MICHAEL C
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR PACE 4 AND
; TITLE OF INVENTION: PACE 4.1 GENE AND POLYPEPTIDES IN CELLS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: COOLEY GODWARD CASTRO HUDDLESON & TATUM
; STREET: FIVE PALO ALTO SQUARE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/447,642
; FILING DATE: 23-MAY-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/284,941
; FILING DATE: 2 August 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: NEELEY PH.D., RICHARD L.
; REGISTRATION NUMBER: 30092
; REFERENCE/DOCKET NUMBER: CHIR-009/01US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 843-5070
; TELEFAX: (415) 857-0663
; TELEX: 380816 COOLY PA
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 969 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-447-642-2

Query Match 6.6%; Score 166.5; DB 2; Length 969;
Best Local Similarity 20.7%; Pred. No. 2.1e-06;
Matches 86; Conservative 53; Mismatches 135; Indels 141; Gaps 25;

QY 70 POKKDAGAOPNPATANLV--TQCNVKCPAGTAIAGGATDYAAIITECVNCRINFYNENA 127
Db 672 PEDEEDYTAQSTPGSANILQTSVCHPEC--GDKCGDGNAD-----OCLNC-VHF---SL 720
QY 128 PNFNAGASTCTACPNVRVGGALTAGNAATIVAQCNVACPTGTALDDGVTTDYVRSFTCEV 187
Db 721 GSVKTSRKCVSVCLGYFG-----DTAARRCRRCHKGCETCSS-----RAATQCL 765
QY 188 KCLNLFYNGNNGNTFNPNGKSC--TPCPAIPKPNVAQATLGNDAITTAQCNVACPDTI 246
Db 766 SCRRGFYHH--QEMNT-----CVTLCPAGFYADESKN-----CLKCHPSC----- 804
QY 247 SAAGVNNVAQNTNCAFNPNFNNAPNFGNSTCLP-CPANKDYGAETAGGAATLA 305
Db 805 -----KKCVDEPEKCTVC-----KEGFSIARGSCIPDCEPGTYFDSSELIRCG----- 846
QY 306 KOCNIACPDGTATASGATNYVILQTECLNCAANFYD-----GNNFOAGS-----S 351
Db 847 -ECHHTC--GTCVGP-----RECIHCAKNFHFHDMKCVACGEGFYPEEMPGLPHK 896
QY 352 RCKACPAKRVQAVATAGTATLIAQCALECPAGTVLTDGTTSTYKQAASCEVKAANFY 411
Db 897 VCRRCDEN-----CLSC-AG-----SSRNCSCRTKGF- 922
QY 412 TTKQTDWAGIDTCTSCNKKLT--SGAEANLPESAKKNIQCD---FANFLSISLLL 462
Db 923 -----TQLGTSCTIHTCSNADETFCEMVKSNRLCERKLFIQFCRTCLL 967

RESULT 8

US-09-236-503-2
; Sequence 2, Application US/09236503
; Patent No. 6277590
; GENERAL INFORMATION:
; APPLICANT: Barr, Philip J
; APPLICANT: Kiefer, Michael C
; TITLE OF INVENTION: Compositions and Methods for PACE 4 and 4.1 Gene and
; TITLE OF INVENTION: Polypeptides in Cells
; FILE REFERENCE: CHIR-009/040US
; CURRENT APPLICATION NUMBER: US/09/236,503
; CURRENT FILING DATE: 1999-01-25
; EARLIER APPLICATION NUMBER: 08/447,642
; EARLIER FILING DATE: 1995-05-23
; EARLIER APPLICATION NUMBER: 08/284,941
; EARLIER FILING DATE: 1994-08-02
; EARLIER APPLICATION NUMBER: 07/848,629
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 969
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-236-503-2

Query Match 6.6%; Score 166.5; DB 4; Length 969;
Best Local Similarity 20.7%; Pred. No. 2.1e-06;
Matches 86; Conservative 53; Mismatches 135; Indels 141; Gaps 25;

QY 70 POKKDAGAOPNPATANLV--TQCNVKCPAGTAIAGGATDYAAIITECVNCRINFYNENA 127
Db 672 PEDEEDYTAQSTPGSANILQTSVCHPEC--GDKCGDGNAD-----OCLNC-VHF---SL 720
QY 128 PNFNAGASTCTACPNVRVGGALTAGNAATIVAQCNVACPTGTALDDGVTTDYVRSFTCEV 187
Db 721 GSVKTSRKCVSVCLGYFG-----DTAARRCRRCHKGCETCSS-----RAATQCL 765
QY 188 KCLNLFYNGNNGNTFNPNGKSC--TPCPAIPKPNVAQATLGNDAITTAQCNVACPDTI 246
Db 766 SCRRGFYHH--QEMNT-----CVTLCPAGFYADESKN-----CLKCHPSC----- 804
QY 247 SAAGVNNVAQNTNCAFNPNFNNAPNFGNSTCLP-CPANKDYGAETAGGAATLA 305

188 KRLNFYNGNNTPEPKSQ-TPCPAIPANVAQATLGNDAITTAQCNVACPDGTI 246
766 SCRRFYHH-QEMNT-----CVTLCPAGFYADESKN-----CLKCHPSC----- 804
247 SAAGYNNVNAQNTCTNCAPNFYNNAPNPNNGSTCLP-CPANKDYGAETAGGAATLA 305
805 -----KCVDEPEKTVG-----KEGFSLARGSCIPDCEPTVDFDSELIRCG----- 846
306 KOCNACPDGTATAGATNYVILQTECLNCAANYFD-----GNFQAGS-----S 351
847 -ECHHTC--GTCVGP-----REECIHCAKNFHHDKWCVACGSGFYPEEMPGLPHK 896
352 RCKACPAKPVQAVATAGGTATLIAQAACALPACGTATVLTDTTSTYKQAASECVKCAANY 411
897 VCRCDN-----CLSC-AG-----SSRNCSCRTKGF- 922
412 TTKQTDWVAGIDTCTSNCKLT-SGAEANLPESAKKNIOCD---FANFLSLSILL 462
923 -----TOLGTSCITNHTCSNADETFCMVKNRLCERKLFIOFCCRTCLL 967
RESULT 10
US-08-460-309-4
; Sequence 4, Application US/08460309
; Patent No. 5837496
; GENERAL INFORMATION:
; APPLICANT: Ebovall, Eva
; APPLICANT: Leivo, Ilmo
; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
; TITLE OF INVENTION: Fragments and Uses Thereof
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/460,309
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/125,077
; FILING DATE: 22-SEP-1993
; APPLICATION NUMBER: US PCT/US 94/10730
; FILING DATE: 21-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/472,319
; FILING DATE: 30-JAN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/919,951
; FILING DATE: 27-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LA 9721
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; US-08-460-309-4

805 -----KCVDEPEKTVG-----KEGFSLARGSCIPDCEPTVDFDSELIRCG----- 846
306 KOCNACPDGTATAGATNYVILQTECLNCAANYFD-----GNFQAGS-----S 351
847 -ECHHTC--GTCVGP-----REECIHCAKNFHHDKWCVACGSGFYPEEMPGLPHK 896
352 RCKACPAKPVQAVATAGGTATLIAQAACALPACGTATVLTDTTSTYKQAASECVKCAANY 411
897 VCRCDN-----CLSC-AG-----SSRNCSCRTKGF- 922
412 TTKQTDWVAGIDTCTSNCKLT-SGAEANLPESAKKNIOCD---FANFLSLSILL 462
923 -----TOLGTSCITNHTCSNADETFCMVKNRLCERKLFIOFCCRTCLL 967
RESULT 9
PCT-US93-02147A-2
; Sequence 2, Application PC/TUS9302147A
; GENERAL INFORMATION:
; APPLICANT: BARR, PHILIP J
; APPLICANT: KIEFER, MICHAEL C
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR PACE 4 AND
; TITLE OF INVENTION: PACE 4.1 GENE AND POLYPEPTIDES IN CELLS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: COOLEY GODWARD CASTRO HUDDLESON & TATUM
; STREET: FIVE PALO ALTO SQUARE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/02147A
; FILING DATE: 19930309
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,629
; FILING DATE: 09-MAR-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: NEELEY PH.D., RICHARD L
; REGISTRATION NUMBER: 30092
; REFERENCE/DOCKET NUMBER: CHIR-009/000S
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 494-7622
; TELEFAX: (415) 857-0663
; TELEX: 380816 COOLEY PA
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 969 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US93-02147A-2
Query Match 6.68; Score 166.5; DB 5; Length 969;
Best Local Similarity 20.78; Pred. No. 2.le-06;
Matches 86; Conservative 53; Mismatches 135; Indels 141; Gaps 25;
70 POKKDAGQNPDPATANLV--TQCNVKCPAGTATAGATDYAAILTECVNCRINEYNENA 127
672 PEDEEDYTAQSPGSAIQTQSVCHPEC-GDKGCDGNAD-----QCLNC-VHF---SL 720
128 PNFNAGASTCTACPNRYRGALTAGNAATIVAQCNVACPTGTALDDGVTTDYVRSFTECV 187
721 GSVKTSRKCVCVPLGYFG-----DTAARRCRRCHKGCETCSS-----RAATQCL 765

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Query Match      6.2%; Score 157; DB 2; Length 3111;
Best Local Similarity 18.5%; Pred. No. 6.8e-05;
Matches 98; Conservative 47; Mismatches 164; Indels 222; Gaps 28;

QY 18 IKSANCPVGTETNTAGQVDDLTGPANVCNCKNFYNNAAAFVPGASTCTPCPQKKDAGA 77
Db 721 VEVQCQPPGY-----TGSSCESCPHRRVNGTIF--GGICEPC----- 757

QY 78 QNPPTANLVTOCNVKCPAGTAAGATDYAAIITECVNCRIN-----FYNE 125
Db 758 -----QC-----FGHAESCDDVTGECLNCKDHTGGYCKOKCLPGFYGE 795

QY 126 NAPFNAGASTCTACPNRVGGALTAGNAATYVAQCNAVCTGTALDDGVTYDYSFTE 185
Db 796 PTKGTSEDQPC-ACPLN-----IPSNFNS---PTCHLDRSLG-LICDGCPCVGY--TGPR 843

QY 186 CVKCRNLNYYNGNNGTFFNPGKSQCTPCPAIKPANVAQATLGNDAITTAQCN-----V 239
Db 844 CERCAEGYF-----GQPSVPGGS-CQPC-----QCNDNLDFSIPGSCDSLGSCL 887

QY 240 ACPDGTISAAGVNNVAQNTCTNCAPNFYNNAPNFNPGNSTCLPCPANKDYGAETAG 299
Db 888 ICKPGT-----TGRYCELCAADGYFGDAVDKN-----CQPCRNCN-----AG 923

QY 300 G-----AATLAKQCNIAACPDGTATAGATNYV----- 326
Db 924 GSFSEVCHSQTGQCECRANVOGQCD-KCKAGTFLQSGARGCPCNCSFGSKSFDCEES 982

QY 327 -----ILOTECLNCAANFYFDGNNFOAGSSRCKACPANKVOGAVATAGGTATLIAQC 378
Db 983 GQWCQCPGVTKKCDRCAHGYF---NFQEGG--CTACECSHLGNCCDPKGTG-----RC 1030

QY 379 ALECPAGTIVLDTGTTSTYKQAASECVKCAANFY-----TTKQTDWVAGIDT 424
Db 1031 I--CPPNTI-----GEKCSKCAPNTWGHSHITTGCKACNCSTVGSLLDFQCNVNT 1076

QY 425 -----CTSCNKK-----LTSGAEANLPESAKNKIQC 450
Db 1077 GQCNCHPKFSGAKTECSRGHWNYPNCNLDCFLPGTDTATTCDSSETKKCSC 1127

RESULT 11
US-08-125-077-4
; Sequence 4, Application US/08125077
; Patent No. 5872231
; Patent No. 5872231 5840863
; GENERAL INFORMATION:
; APPLICANT: Engvall, Eva
; APPLICANT: Leivo, Ilmo
; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/125,077
; FILING DATE: 22-SEP-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US 94/10730
; FILING DATE: 21-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/472,319
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; FILING DATE: 30-JAN-1990
; PRIOR APPLICATION DATA: US 07/919,951
; APPLICATION NUMBER: 27-JUL-1992
; FILING DATE: 27-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LA 9721
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; US-08-125-077-4

Query Match      6.2%; Score 157; DB 2; Length 3111;
Best Local Similarity 18.5%; Pred. No. 6.8e-05;
Matches 98; Conservative 47; Mismatches 164; Indels 222; Gaps 28;

QY 18 IKSANCPVGTETNTAGQVDDLTGPANVCNCKNFYNNAAAFVPGASTCTPCPQKKDAGA 77
Db 721 VEVQCQPPGY-----TGSSCESCPHRRVNGTIF--GGICEPC----- 757

QY 78 QNPPTANLVTOCNVKCPAGTAAGATDYAAIITECVNCRIN-----FYNE 125
Db 758 -----QC-----FGHAESCDDVTGECLNCKDHTGGYCKOKCLPGFYGE 795

QY 126 NAPFNAGASTCTACPNRVGGALTAGNAATYVAQCNAVCTGTALDDGVTYDYSFTE 185
Db 796 PTKGTSEDQPC-ACPLN-----IPSNFNS---PTCHLDRSLG-LICDGCPCVGY--TGPR 843

QY 186 CVKCRNLNYYNGNNGTFFNPGKSQCTPCPAIKPANVAQATLGNDAITTAQCN-----V 239
Db 844 CERCAEGYF-----GQPSVPGGS-CQPC-----QCNDNLDFSIPGSCDSLGSCL 887

QY 240 ACPDGTISAAGVNNVAQNTCTNCAPNFYNNAPNFNPGNSTCLPCPANKDYGAETAG 299
Db 888 ICKPGT-----TGRYCELCAADGYFGDAVDKN-----CQPCRNCN-----AG 923

QY 300 G-----AATLAKQCNIAACPDGTATAGATNYV----- 326
Db 924 GSFSEVCHSQTGQCECRANVOGQCD-KCKAGTFLQSGARGCPCNCSFGSKSFDCEES 982

QY 327 -----ILOTECLNCAANFYFDGNNFOAGSSRCKACPANKVOGAVATAGGTATLIAQC 378
Db 983 GQWCQCPGVTKKCDRCAHGYF---NFQEGG--CTACECSHLGNCCDPKGTG-----RC 1030

QY 379 ALECPAGTIVLDTGTTSTYKQAASECVKCAANFY-----TTKQTDWVAGIDT 424
Db 1031 I--CPPNTI-----GEKCSKCAPNTWGHSHITTGCKACNCSTVGSLLDFQCNVNT 1076

QY 425 -----CTSCNKK-----LTSGAEANLPESAKNKIQC 450
Db 1077 GQCNCHPKFSGAKTECSRGHWNYPNCNLDCFLPGTDTATTCDSSETKKCSC 1127

RESULT 12
US-08-317-450B-15
; Sequence 15, Application US/08317450B
; Patent No. 5660982
; GENERAL INFORMATION:
; APPLICANT: Tryggvason, Karl
; APPLICANT: Kallunki, Pekka
; APPLICANT: Pyke, Charles
; TITLE OF INVENTION: Laminin Chains: Diagnostic and
; TITLE OF INVENTION: Therapeutic Use
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD.
```

STREET: Ten South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317,450B
FILING DATE: 04-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Chao, Mark
REGISTRATION NUMBER: 37,293
REFERENCE/DOCKET NUMBER: 94,778
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1000
TELEFAX: 312-715-1234
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1111 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-317-450B-15

Query Match 5.9%; Score 150.5; DB 1; Length 1111;
Best Local Similarity 20.0%; Pred. No. 6.5e-05;
Matches 82; Conservative 49; Mismatches 138; Indels 141; Gaps 25;

QY 18 IKSANCPVGTETNTAGQVDDLGTTPANCVCNCKNFYNNAAAFVPGASTCTPCPOKKDAGA 77
DB 379 VEQCTCPVGYK-----GQF-----CQDCASG--YKRD SARLGPFGTCIPCNQGGGAC 424
QY 78 QNPPTANLVTCNVKCPAGTAAGGATDYAAITTECVNCRINFYNENAPFNAGASTC 137
DB 425 DPD-----TGDCYSGDENP-----DIECADCPIGFYND--PH---DPRSC 459
QY 138 TACPVRNVGGALTAGNAATIVAQ-----CNVACPTGTALDDGVTTDYVRSFTCEVKCRLN 192
DB 460 KPCPCHN-----GFSCSVIPETEVEVCN--NCPPGV-----TGARCELCA DG 499
QY 193 FYNNGNNGTNPFPKSGSCTPCPAIKPANVAQAATLGNDAITTAOCNVACPDGTISAAGVN 252
DB 500 YFGDPFGEHGPVPR-----CQPCQC--NSNVDP SASGNC DRLTGRC-LKCIHNT---AGI- 548
QY 253 NWVAQNTCTNCAPNFYNN--APNFPNGNSTCLPCPANKDYGAETAGGAATLAKOCNIA 311
DB 549 -----YCDQCKAGYFGDPLAP--NPADK--CRACN CN--PMGSEP-----VG 584
QY 312 C-PDGTATIASGATNYVILQTECLNCAANFYFDGNNFQAGSSRCKAC-----P 357
DB 585 CRSDDGT-----CVCKPFGGPNCEHGAFCSPACYNQNVIQMDQFMQ 626
QY 358 ANKVOGAVATAGGTATLLAQALECPAGTVLTDGTTSTYKQAASECVKCA 407
DB 627 LQRMALISKAQGGDGVVDPDTELE-----GRMQAQEQALQDILRDA 667

RESULT 13
US-08-800-593-15
Sequence 15, Application US/08800593
Patent No. 6143505
GENERAL INFORMATION:
APPLICANT: Tryggvason, Karl
APPLICANT: Kallunki, Pekka
APPLICANT: Pyke, Charles
TITLE OF INVENTION: Laminin Chains: Diagnostic and
Therapeutic Use

NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/800,593
FILING DATE: 18-FEB-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/317,450
FILING DATE: 04-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Chao, Mark
REGISTRATION NUMBER: 37,293
REFERENCE/DOCKET NUMBER: 94,778-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1111 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-800-593-15

Query Match 5.9%; Score 150.5; DB 4; Length 1111;
Best Local Similarity 20.0%; Pred. No. 6.5e-05;
Matches 82; Conservative 49; Mismatches 138; Indels 141; Gaps 25;

QY 18 IKSANCPVGTETNTAGQVDDLGTTPANCVCNCKNFYNNAAAFVPGASTCTPCPOKKDAGA 77
DB 379 VEQCTCPVGYK-----GQF-----CQDCASG--YKRD SARLGPFGTCIPCNQGGGAC 424
QY 78 QNPPTANLVTCNVKCPAGTAAGGATDYAAITTECVNCRINFYNENAPFNAGASTC 137
DB 425 DPD-----TGDCYSGDENP-----DIECADCPIGFYND--PH---DPRSC 459
QY 138 TACPVRNVGGALTAGNAATIVAQ-----CNVACPTGTALDDGVTTDYVRSFTCEVKCRLN 192
DB 460 KPCPCHN-----GFSCSVIPETEVEVCN--NCPPGV-----TGARCELCA DG 499
QY 193 FYNNGNNGTNPFPKSGSCTPCPAIKPANVAQAATLGNDAITTAOCNVACPDGTISAAGVN 252
DB 500 YFGDPFGEHGPVPR-----CQPCQC--NSNVDP SASGNC DRLTGRC-LKCIHNT---AGI- 548
QY 253 NWVAQNTCTNCAPNFYNN--APNFPNGNSTCLPCPANKDYGAETAGGAATLAKOCNIA 311
DB 549 -----YCDQCKAGYFGDPLAP--NPADK--CRACN CN--PMGSEP-----VG 584
QY 312 C-PDGTATIASGATNYVILQTECLNCAANFYFDGNNFQAGSSRCKAC-----P 357
DB 585 CRSDDGT-----CVCKPFGGPNCEHGAFCSPACYNQNVIQMDQFMQ 626
QY 358 ANKVOGAVATAGGTATLLAQALECPAGTVLTDGTTSTYKQAASECVKCA 407
DB 627 LQRMALISKAQGGDGVVDPDTELE-----GRMQAQEQALQDILRDA 667

RESULT 14
US-08-317-450B-13
Sequence 13, Application US/08317450B


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: PATENT NO. 5660982
: GENERAL INFORMATION:
: APPLICANT: Trygvason, Karl
: APPLICANT: Kallunki, Pekka
: APPLICANT: Pyke, Charles
: TITLE OF INVENTION: Laminin Chains: Diagnostic and
: TITLE OF INVENTION: Therapeutic Use
: NUMBER OF SEQUENCES: 19
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: BANNER & ALLEGRETTI, LTD.
: STREET: Ten South Wacker Drive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: USA
: ZIP: 60606
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/317,450B
: FILING DATE: 04-OCT-1994
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Chao, Mark
: REGISTRATION NUMBER: 37,293
: REFERENCE/DOCKET NUMBER: 94,778
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312-715-1000
: TELEFAX: 312-715-1234
: INFORMATION FOR SEQ ID NO: 13:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1193 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-317-450B-13

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[illegible]

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RESULT 15
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; Sequence 13, Application US/08800593
; Patent No. 6143505
; GENERAL INFORMATION:
; APPLICANT: Tryggvason, Karl
; APPLICANT: Kallunki, Pekka
; APPLICANT: Pyke, Charles
; TITLE OF INVENTION: Laminin Chains: Diagnostic and
; TITLE OF INVENTION: Therapeutic Use
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/800,593
; FILING DATE: 18-FEB-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/317,450
; FILING DATE: 04-OCT-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Chao, Mark
; REGISTRATION NUMBER: 37,293
; REFERENCE/DOCKET NUMBER: 94,778-B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1193 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-800-593-13

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Wed Dec 26 12:01:32 2001

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